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MKS
INSTRUMENTS

Fax Transmission

To: Steve Sexton +
Tim Meeller
Company: HPS
Fax #:

Date: 3/10/99

From: Matt Taylor, ext. 222

No. pages: 8
(Including cover sheet)

Message:

Here is the marked-up cable
drawing + the time line from
Luke to Kelly + Fred

Thank a million for picking this
up so late + bringing us up to speed
so quickly!!!!

FAX

DATE: DECEMBER 16, 1998

TO: MKS-SANTA CLARA

ATTN: MATT TAYLOR

FROM: DICK JACOBS

REF: LOADLOCK TRANSDUCER

=====

HERE IS THE INFORMATION YOU REQUESTED FROM LUKE.

REGARDS, DICK

CPD Work Breakdown Structure

ID	Task Name	Dur	Start	Finish	1Q99			2Q99			3Q99			
					Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
1.0 CONCEPT PHASE														
1		19 days	Mon 11/30/98	Mon 11/30/98										
2	✓ 1.1 Complete New Product Concept Identification Form (NPCCF)	3 days	Mon 11/16/98	Wed 11/18/98										
3	✓ 1.2 CONCEPT IDENTIFICATION COMPLETED	0 days	Wed 11/18/98	Wed 11/18/98										
4	✓ 1.3 Gather Business-Product Description -Risk & Resource Requirement Info	3 wks	Mon 11/23/98	Fri 11/20/98										
5	✓ 1.4 Prepare Definition Proposal Document	3 days	Mon 11/23/98	Wed 11/25/98										
6	✓ 1.5 DEFINITION PROPOSAL REVIEW	1 day	Mon 11/30/98	Mon 11/30/98										
7	✓ 1.6 Concept Approved	0 days	Mon 11/30/98	Mon 11/30/98										
8	2.0 DEFINITION PHASE	67 days	Thu 11/15/98	Wed 2/17/99										
9	✓ 2.1 Establish Design Record Book	3 days	Tue 12/1/98	Thu 12/3/98										
10	✓ 2.2 Gather Customer Requirements	6 wks	Thu 11/5/98	Fri 12/16/98										
11	✓ 2.3 Customer Requirements Completed	0 days	Fri 12/18/98	Fri 12/18/98										

Project: Loadlock Gauge Development	Task Split	Summary	Rolled Up Progress
Date: 11/23/98	Progress	Rolled Up Task	External Tasks
File: sch9811a.mpp	Milestone	Rolled Up Split	Project Summary



Page 1

MK5 CONFIDENTIAL

CPD Work Breakdown Structure

ID	Task Name	Start	Finish	1Q99				2Q99				3Q99			
				Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug		
12	2.4 Generate External Specifications Document	Mon 1/21/99	Wed 1/22/99												
13	2.6 Generate Internal Specifications Document	3 days	Mon 1/21/99	Wed 1/22/99											
14	2.7 Initial Specification Completed	0 days	Wed 2/10/99	Wed 2/10/99											
15	2.20 Generate the Product Development Schedule	2 days	Thu 2/11/99	Fri 2/12/99											
16	2.21 Complete the Development/ Proposal document	2 days	Mon 2/15/99	Tue 2/16/99											
17	2.22 DEVELOPMENT PROPOSAL REVIEW	1 day	Wed 2/17/99	Wed 2/17/99											
18	2.23 PRODUCT APPROVED	0 days	Wed 2/17/99	Wed 2/17/99											
19	3.0 Development Phase	96 days	Thu 1/22/99	Thu 6/10/99											
20	1.2 Generate the Final Specification	2 days	Thu 2/16/99	Fri 2/19/99											
21	3.3 Initiate D.C.R. to release the Final Specification	1 day	Mon 2/22/99	Mon 2/22/99											
22	3.4 FINAL SPECIFICATION COMPLETED	0 days	Mon 2/22/99	Mon 2/22/99											
23	3.11 Build the "Breadboards"/"Brassboards" (Acquire from HPS)	3 wks	Thu 1/28/99	Wed 2/17/99											

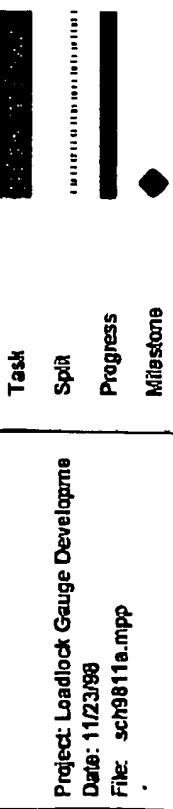
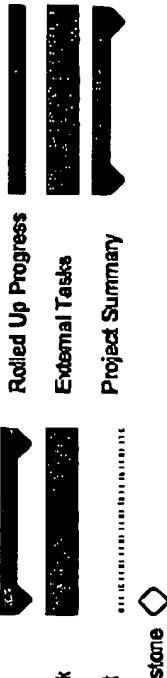
Task	Summary	Rolled Up Progress	External Tasks	Project Summary
Split		Rolled Up Task		
Progress		Rolled Up Split		
Milestone	◆	Rolled Up Milestone ◆		

Project: Loadlock Gauge Development
Date: 11/23/98
File: sch9811a.mpp

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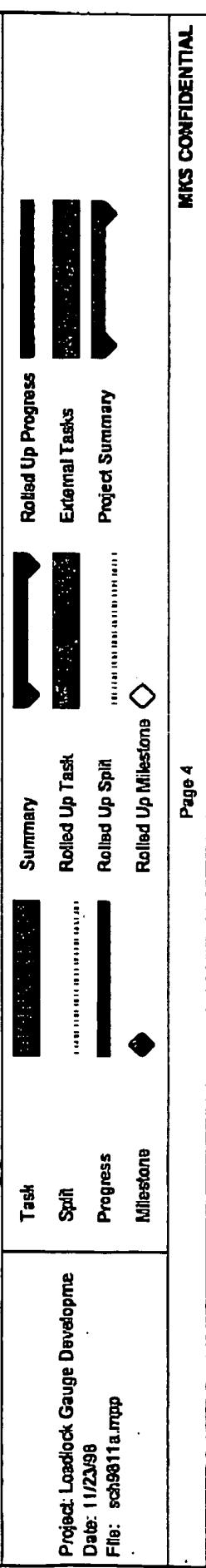
CPD Work Breakdown Structure

ID	Task Name	Dur.	Start	Finish	1Q99			2Q99			3Q99		
					Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
24	3.12 Test the concept and/or test pieces	2 wks	Thu 2/16/99	Wed 3/3/99									
25	3.13 Document the concept test results	2 days	Thu 3/4/99	Fri 3/5/99									
26	3.14/3.15 DESIGN REVIEW	1 day	Mon 3/6/99	Mon 3/6/99									
27	3.17 Design the PC Boards (using CAD tools)	4 wks	Tue 3/9/99	Mon 4/5/99									
28	3.18 Design the Mechanicals (using CAD tools)	4 wks	Tue 3/9/99	Mon 4/5/99									
29	3.20 Design the Packaging (using CAD tools)	2 wks	Tue 3/23/99	Mon 4/5/99									
30	3.21 Create the Prototype Test Plan	3 days	Tue 3/9/99	Thu 3/11/99									
31	3.24 Perform FMEA analysis	1 wk	Tue 4/6/99	Mon 4/12/99									
32	3.25 Generate FMEA report	2 days	Tue 4/13/99	Wed 4/14/99									
33	3.26 Build and Test the Prototypes	5 wks	Tue 4/6/99	Mon 5/10/99									
34	3.28 Document the Prototype Test Results	3 days	Tue 5/11/99	Thu 5/13/99									
35	3.29 CRITICAL FUNCTION VERIFIED, PROTOTYPE BUILT AND TESTED	0 days	Thu 5/13/99	Thu 5/13/99									



CPD Work Breakdown Structure

ID	Task Name	Start	Finish	1Q99				2Q99				3Q99
				Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
36	3.30 Review Product Cost	Tue 5/1/99	Tue 5/1/99									
37	3.32 PROTOTYPE DESIGN REVIEW	1 day	Fri 5/14/99	Fri 5/14/99								
38	3.33 Assemble the design Drawing Package	3 days	Tue 5/11/99	Thu 5/13/99								
39	3.34 Develop the Manufacturing Plan (preliminary)	13 days	Tue 4/27/99	Thu 5/13/99								
40	3.35 MANUFACTURABILITY DESIGN REVIEW	1 day	Fri 5/14/99	Fri 5/14/99								
41	3.36 Initiate Drawing Package release EO	1 day	Fri 5/14/99	Fri 5/14/99								
42	3.38 DESIGN PACKAGE RELEASED	0 days	Fri 5/14/99	Fri 5/14/99								
43	3.39 Load Product Structures into AS4400	1 day	Mon 5/17/99	Mon 5/17/99								
44	3.42 Generate the Manufacturing/Assembly Procedures	3 wks	Fri 5/14/99	Thu 6/2/99								
45	3.43 Design the Manufacturability Testing Requirements Procedure	2 wks	Fri 5/21/99	Thu 6/2/99								
46	3.44 Initiate Manufacturing/Assembly procedure, release DCRT'S	2 days	Fri 6/4/99	Mon 6/7/99								
47	3.45 MANUFACTURING ASSEMBLY PROCEDURES RELEASED MANUFACTURING TESTING DESIGN COMPLETED	0 days	Mon 6/7/99	Mon 6/7/99								



Project: Loadlock Gauge Development
Date: 11/23/98
File: sch9811a.mpp

Task Split

Progress

Milestone

Rolled Up Task

Rolled Up Split

Rolled Up Milestone

Rolled Up Progress

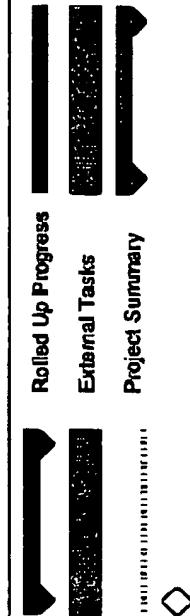
External Tasks

Project Summary

CPD Work Breakdown Structure

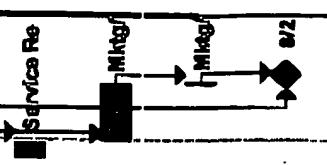
ID	①	Task Name	Our	Start	Finish	1Q99			2Q99			3Q99			
						Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
48		3.46 Load product Routings into AS400	3 days	Tue 6/8/99	Thu 6/10/99										
49		3.64 Generate Service Plan - preliminary	2 wks	Mon 5/17/99	Fri 5/28/99										
50		3.65 Generate the Pilot (BETA) Plan	1 wk	Thu 2/16/99	Wed 2/24/99										
51		3.68 PILOT RELEASE REVIEW	1 day	Mon 5/17/99	Mon 5/17/99										
52		3.69 RELEASE TO PILOT	0 days	Mon 5/17/99	Mon 5/17/99										
53		4.0 Pilot Phase	55 days	Tue 5/18/99	Mon 6/2/99										
54		4.1 Get materials for Pilot (Beta Unit) build	2 wks	Tue 5/18/99	Mon 5/31/99										
55		4.2 Generate Product Instruction Manual - final	3 wks	Tue 5/18/99	Mon 6/7/99										
56		4.3 Generate Product Data Sheet	1 wk	Tue 5/18/99	Mon 5/24/99										
57		4.4 Generate the Sales Plan	1 wk	Tue 5/25/99	Mon 5/31/99										
58		4.5 Build the Pilot run (Beta Units)	3 wks	Tue 5/18/99	Mon 6/21/99										
59		4.9 PILOT RUN (BETA UNITS) COMPLETED	0 days	Mon 6/21/99	Mon 6/21/99										

Task	Summary	Rolled Up Progress
Split	Rolled Up Task	External Tasks
Progress	Rolled Up Split	Project Summary
Milestone	Rolled Up Milestone	

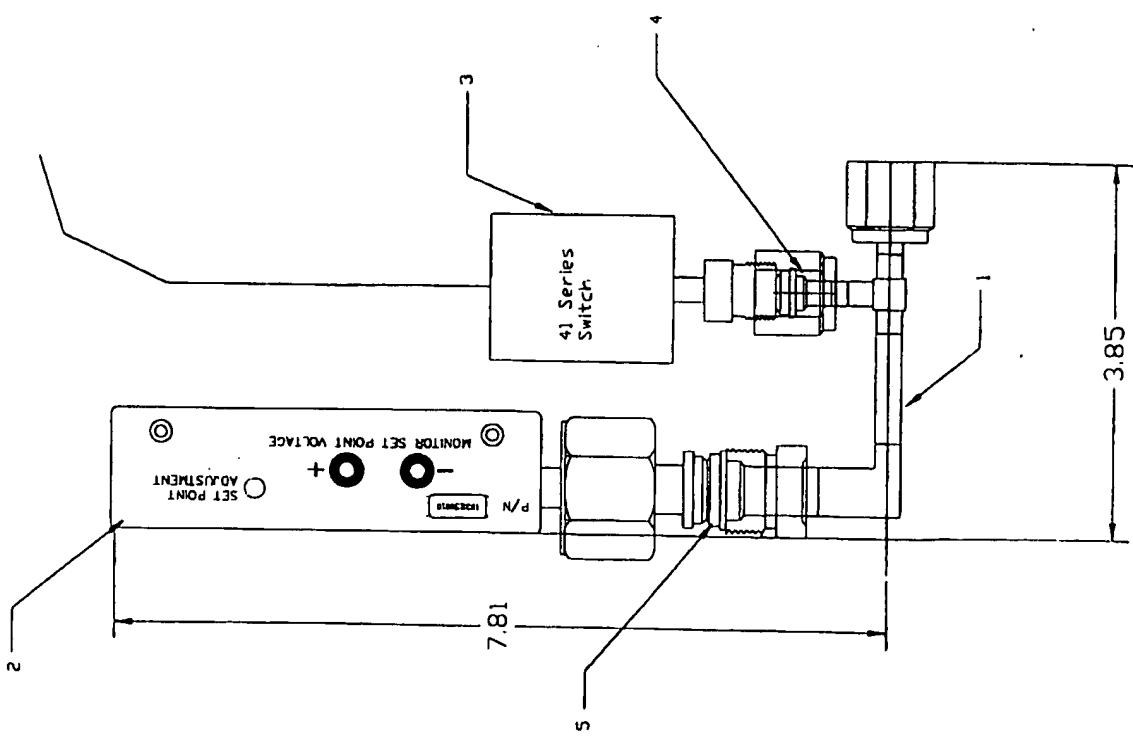
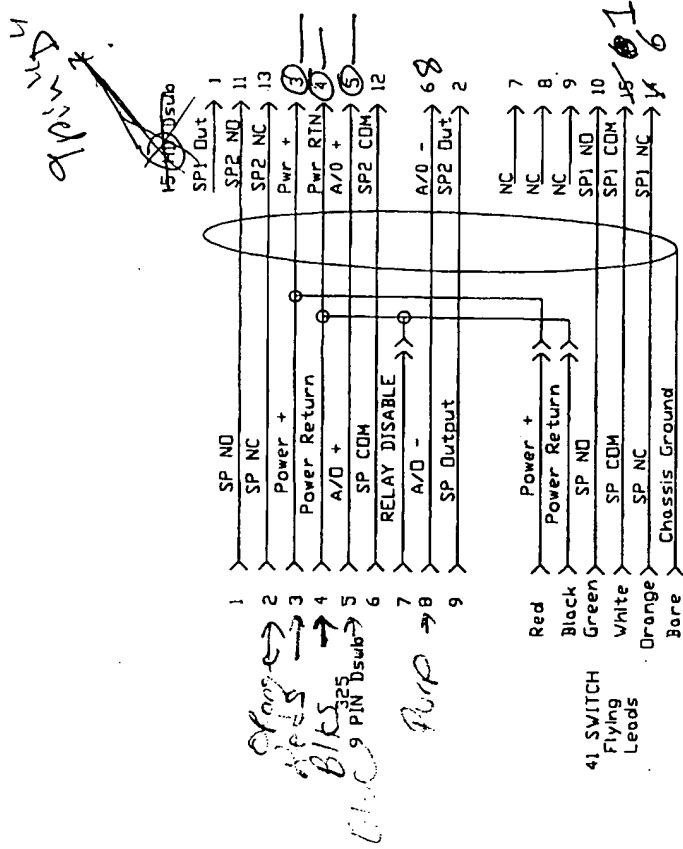


CPD Work Breakdown Structure

ID	① Task Name	Dur	Start	Finish	1Q99			2Q99			3Q99			
					Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
60	4.10 MANUFACTURING BETA REVIEW	1 day	Tue 6/22/99	Tue 6/22/99										
61	4.11 Perform Product Qualification Tests	6 wks	Tue 6/21/99	Mon 8/2/99										
62	4.15 BETA TESTING COMPLETED (QUALIFICATION AS REQUIRED)	0 days	Mon 8/2/99	Mon 8/2/99										
63	4.16 Generate the Service Plan - Final	1 wk	Tue 6/22/99	Mon 6/28/99										
64	4.18 Prepare the Sales Release Proposal document	4 wks	Thu 7/1/99	Wed 7/28/99										
65	4.20 SALES RELEASE REVIEW	1 day	Thu 7/29/99	Thu 7/29/99										
66	4.21 RELEASE TO SALES (PRODUCT LAUNCHED)	0 days	Mon 8/2/99	Mon 8/2/99										



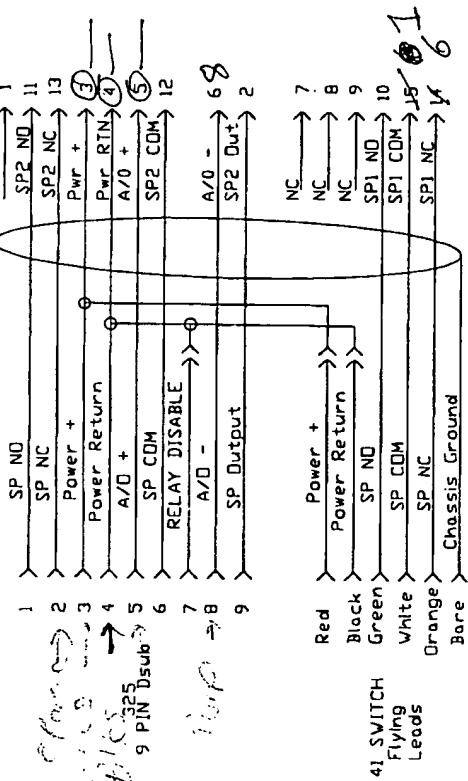
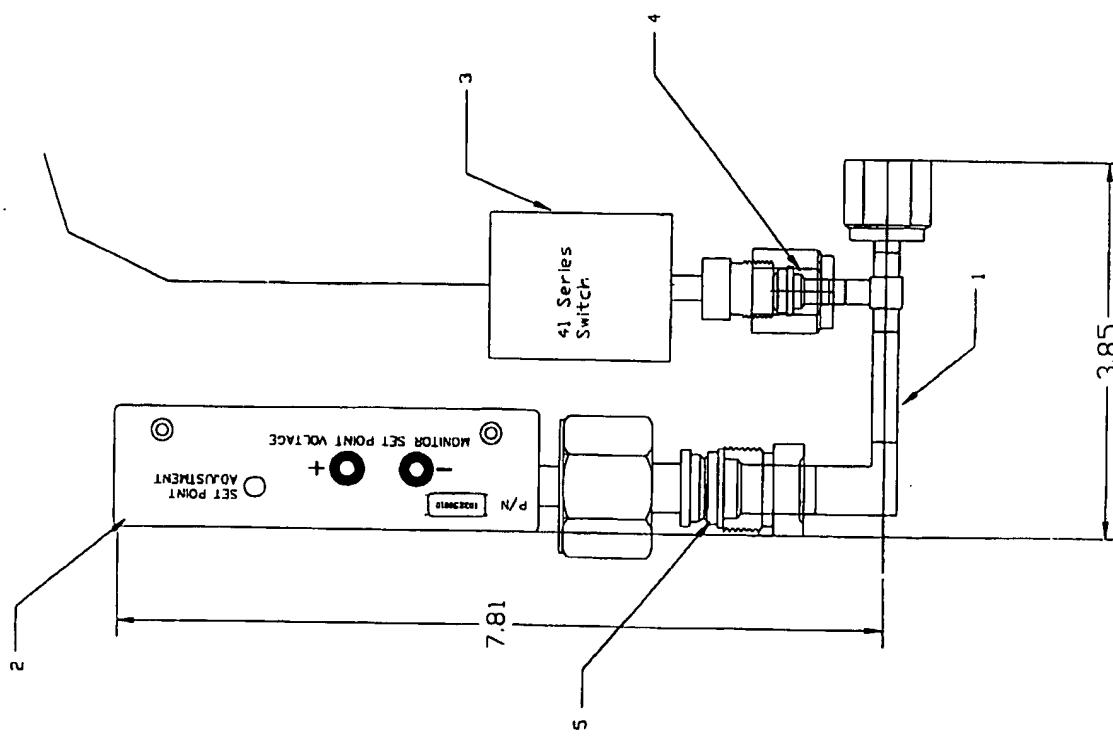
Project: Loadlock Gauge Development Date: 11/23/98 File: sch9011a.mpp	Task	Summary	Rolled Up Progress
	Split	Rolled Up Task	External Tasks
	Progress	Rolled Up Split	Project Summary
	Milestone	Rolled Up Milestone	
		Page 6	MKS CONFIDENTIAL



ITEM	QTY	U/N	DESCRIPTION	DOC	DRAWING NUMBERED
5	1	EA	GASKET, CLU, B/VER	MS	10005876
4	1	EA	GASKET, CLU, 4 VCR	MS	10006138
3	1	EA	ATM SWITCH, 41A1100A1BF003	PUR	41A100A1BF003
2	1	EA	325.15V, B/VER, SHORT	DVG	1028250102
1	1	EA	MAN,PIRANI, ATM SWITCH	DVG	93-7585A

TOLERANCES
UNLESS OTHERWISE
STATED
PROPOSED
L.S. = 2.1 INCH
C.S. = 2.01 INCH
T.E.S. = 2.005 INCH
MATERIALS = 2.37
① .005 IN
SUBTRACT ALL CORROSION
0.015 INCH MAX

0190-36521



ITEM	QTY	U/M	DESCRIPTION	DOC	DRAWING NUMBER
5	1	EA	GASKET,U/B,VER	MS	10003976
4	1	EA	GASKET,CL,4VER	MS	10006438
3	1	EA	ATM SWITCH,41A,110CA,BF003	PUR	41A1DCA1BF003
2	1	EA	325.15V,BVR,SHRT	DVG	102540012
1	1	EA	MAN/PIRANI/ATM SWITCH	DVG	93-7589A

TOLERANCES UNLESS OTHERWISE SPECIFIED		The dimensions, tolerances and other information on this drawing are subject to change and are not to be interpreted as final. The dimensions and tolerances are to be interpreted as per the drawing and/or engineering drawing. The engineering drawing is the final authority. The engineering drawing is to be used for all manufacturing, assembly, inspection and quality control. The engineering drawing is to be used for all manufacturing, assembly, inspection and quality control. The engineering drawing is to be used for all manufacturing, assembly, inspection and quality control. The engineering drawing is to be used for all manufacturing, assembly, inspection and quality control. The engineering drawing is to be used for all manufacturing, assembly, inspection and quality control.			
S.S. = .012 INCH					
MATERIAL = 1003, 2024					
ANGLES = +2°					
@ ONE END					

HPS	ASSY,PIRANI/ATM SWITCH
INSTRUMENTS, INC.	PRINTED DRAWING
DIVISION	REV. B
MEASUREMENTS, INC.	93-7585

IPS

MASTER V vs P TABLE FOR HPS 325 SENSOR WITH NITROGEN

p, torr	V, Volts										
0.0010	0.22094	0.010	0.32604	0.10	0.80173	1.0	1.9935	10	2.9967	100	3.1931
0.0012	0.22385	0.012	0.34488	0.12	0.86840	1.2	2.1043	12	3.0328	120	3.1970
0.0014	0.22672	0.014	0.36269	0.14	0.92892	1.4	2.1961	14	3.0587	140	3.1999
0.0016	0.22955	0.016	0.37961	0.16	0.98448	1.6	2.2735	16	3.0780	160	3.2022
0.0018	0.23234	0.018	0.39576	0.18	1.03592	1.8	2.3399	18	3.0931	180	3.2040
0.0020	0.23509	0.020	0.41124	0.20	1.08386	2.0	2.3975	20	3.1052	200	3.2055
0.0025	0.24184	0.025	0.44741	0.25	1.19134	2.5	2.5130	25	3.1270	250	3.2084
0.0030	0.24839	0.030	0.48065	0.30	1.28496	3.0	2.6002	30	3.1415	300	3.2106
0.0035	0.25477	0.035	0.51153	0.35	1.36793	3.5	2.6684	35	3.1519	350	3.2124
0.0040	0.26098	0.040	0.54046	0.40	1.44240	4.0	2.7233	40	3.1597	400	3.2139
0.0045	0.26704	0.045	0.56775	0.45	1.50989	4.5	2.7685	45	3.1658	450	3.2152
0.0050	0.27296	0.050	0.59362	0.50	1.57153	5.0	2.8064	50	3.1707	500	3.2165
0.0055	0.27875	0.055	0.61825	0.55	1.62818	5.5	2.8386	55	3.1747	550	3.2176
0.0060	0.28441	0.060	0.64179	0.60	1.68052	6.0	2.8663	60	3.1781	600	3.2187
0.0065	0.28996	0.065	0.66437	0.65	1.72910	6.5	2.8903	65	3.1809	650	3.2197
0.0070	0.29540	0.070	0.68606	0.70	1.77436	7.0	2.9115	70	3.1834	700	3.2207
0.0075	0.30074	0.075	0.70696	0.75	1.81668	7.5	2.9302	75	3.1855	750	3.2217
0.0080	0.30597	0.080	0.72715	0.80	1.85636	8.0	2.9469	80	3.1874	800	3.2226
0.0085	0.31112	0.085	0.74666	0.85	1.89368	8.5	2.9619	85	3.1891	850	3.2235
0.0090	0.31618	0.090	0.76557	0.90	1.92885	9.0	2.9754	90	3.1906	900	3.2244
0.0095	0.32115	0.095	0.78391	0.95	1.96207	9.5	2.9876	95	3.1919	950	3.2253
0.0100	0.32604	0.100	0.80173	1.00	1.99352	10.0	2.9988	100	3.1931	1000	3.2261

X 3

for all values!

Hal
Hal Fortna 01/21/99 10:11 AM

To: Dick Jacobs/US/MKS@MKSINST
cc: Jack Gillespie/US/MKS@MKSINST
Subject: 41 Switch Hysteresis Resistor

Dick,

Bea.

I've determined that using MKS part number 065-0614 (124kohm) will give a hysteresis close to 10% for the 41 switch. This resistor replaces part number 065-0614 at location R17 on the circuit board. There are 751 of these in the stock room downstairs. This value will not give precisely a 10% hysteresis since there is a nonlinear relationship between the resistor value and actually flipping the relay. However, this should put us fairly close and if we need to fine tune it we can. Any data Santa Clara can gather will make the process quicker (i.e. output voltage when relay trips).

This is the basic information required to make the change. Do we need to provide a drawing to support this message?

Hal

ATT: Matt Taylor

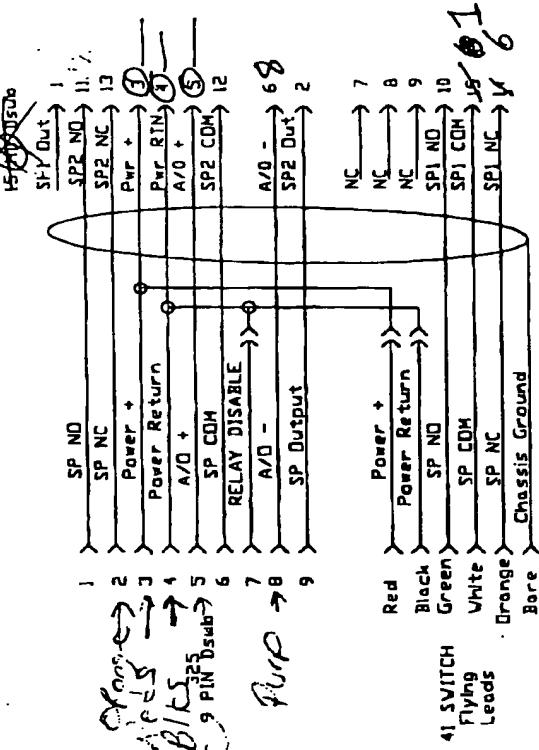
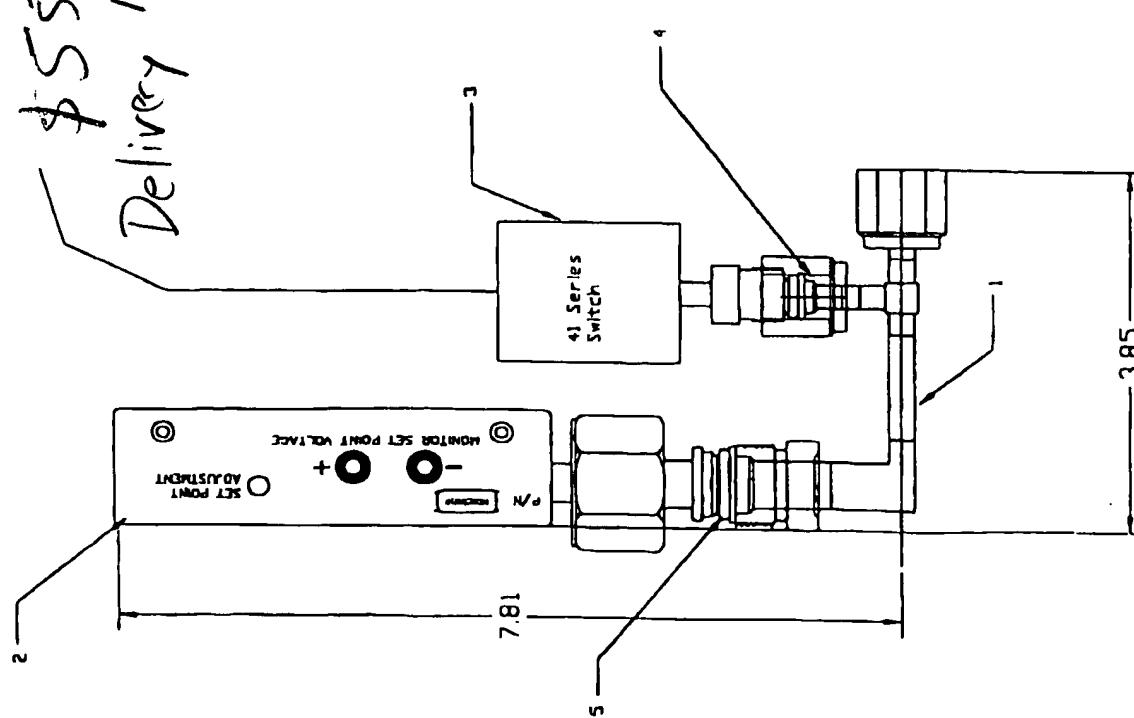
Will have Cheryl Fed Ex P/I you

8 resistors. Is this enough for now?

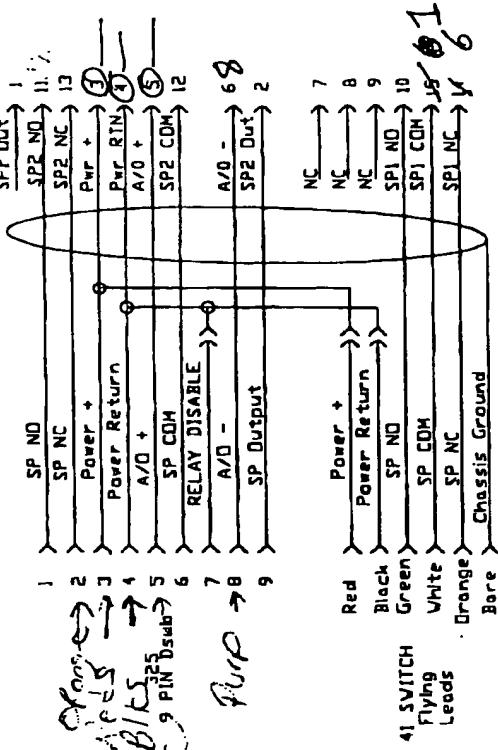
Dick

Post-It® Fax Note	7671	Date 10/29	# of pages ▶ 1
To MAT TAYLOR		Town Loomys	
Co./Dept. PIRANI QUOTE		Call Delivest	
Phone # 703-654-7067		Phone # 563-1767	
Fax # 988-444-920		Fax # 563-0660	

✓ **Mat Taylor**
✓ **Call Delivest**
✓ **563-1767**



✓ **\$550 each**
✓ **Delivery 11/13/98**



DOC	DIAGNOSTIC NUMBER	DESCRIPTION	ITEM	QTY	U/M
MS	1000000116	PIRANI QUOTE	PIRANI QUOTE	1	PCB
MS	100006139	PIRANI QUOTE	PIRANI QUOTE	1	PCB
PUR	10110544187003	PIRANI QUOTE	PIRANI QUOTE	1	PCB
DVG	102750012	PIRANI QUOTE	PIRANI QUOTE	1	PCB
DVG	92-73593A	PIRANI QUOTE	PIRANI QUOTE	1	PCB
SCALE	1-1				

HPS	
Division	ASSY, PIRANI/ATM SWITCH
Division	93-7585 A

ITEM	DESCRIPTION	QTY	U/M
1	PIRANI QUOTE	1	PCB
2	PIRANI QUOTE	1	PCB
3	PIRANI QUOTE	1	PCB
4	PIRANI QUOTE	1	PCB
5	PIRANI QUOTE	1	PCB
6	PIRANI QUOTE	1	PCB
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